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CLAIMS

1. A cable/tube installation system for use with a component mounting apparatus, the system being a cable installation system (3) for use with an operating head (1) that rotates around its axis in a component mounting apparatus, wherein a cable (9) is fixedly attached at one end (9a) thereof to the operating head (1) and at the other end (9b) to a stationary part of the apparatus,

the system comprising: a drive pulley (4) that rotates integrally with the head (1); a driven pulley (5) situated at one side of the drive pulley (4); a guide belt (6) stretched over the drive pulley (4) and the driven pulley (5); and a guide member (8) placed substantially in parallel with the guide belt (6) between the drive pulley (4) and the driven pulley (5), the one end (9a) of the cable (9) being fixedly attached to a part of the guide belt (6) that is always in contact with the drive pulley (4) when the head (1) rotates, the other end (9b) of the cable (9) being fixedly attached to the guide member (8), the cable (9) being bent in U shape at the midpoint, and extended along the guide belt (6) on one side and along the guide member (8) on the other side.

2. The cable/tube installation system for use with a component mounting apparatus according to claim 1, wherein a portion of the cable (9) at the one end (9a) which is wound around the drive pulley (4) when the head (1) rotates is fixed

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to the guide belt (6).

3. A cable/tube installation system for use with a component mounting apparatus, the system being a cable installation system (3) for use with an operating head (1) that rotates around its axis in a component mounting apparatus, wherein a cable (9) is fixedly attached at one end (9a) thereof to the operating head (1) and at the other end (9b) to a stationary part of the apparatus,

10 the system comprising: a circular pulley (13) coaxial and rotatable with the head (1); and a guide member (14) opposite the outer periphery of the pulley (13) with a space, wherein the cable (9) is bent in U shape with the one end (9a) of the cable (9) being fixed to the pulley (13) and the other end (9b)  
15 to the guide member (14), the one end (9a) side being wound around the pulley (13), while the other end (9b) side is extended along the guide member (14).

4. The cable/tube installation system for use with a component mounting apparatus according to claim 3, wherein the guide member (14) has an arc shape concentric with the pulley (13).

5. A cable/tube installation system for use with a component mounting apparatus, the system being a cable installation system (3) for use with an operating head (15) that rotates around its axis in a component mounting apparatus,

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wherein a cable (19) is fixedly attached at one end (19a) thereof to the operating head (15) and at the other end (19b) to a stationary part of the apparatus,

the system comprising: a movable guide member (17)

5 fixedly mounted to the head (15) perpendicularly to the axis of the head (15); and a stationary guide member (18) mounted in parallel with the movable guide member (17), wherein the cable (19) is laid in an arc shape and bent back in U shape with the center axis (20) of the arc maintained the same, the one end  
10 (19a) of the cable (19) being fixedly attached to the movable guide member (17) and the other end (19b) of the cable (19) being fixedly attached to the stationary guide member (18), with the center axis (20) of the arc shape of the cable (19) being coincided with the axis of the head (15).

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6. The cable/tube installation system for use with a component mounting apparatus according to claim 5, wherein a plurality of the cables (19), each bent back in U shape of the same diameter, are arranged in a circumferential direction  
20 between the movable guide member (17) and the stationary guide member (18).

7. The cable/tube installation system for use with a component mounting apparatus according to claim 5 or 6, wherein  
25 the head (15) rotates around and moves along the axis.

8. The cable/tube installation system for use with a

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component mounting apparatus according to any of claims 1, 3, and 5, wherein the cable (9, 19) is composed of a flat cable in which a plurality of cables are arranged side by side.

- 5            9. The cable/tube installation system for use with a component mounting apparatus according to any of claims 1, 3, and 5, wherein the cable (9, 19) is partly or entirely replaced by a tube composed of a flexible tube member.